AGFAPHOTO

User manual

OPTIMA 145

WARNING

Do not expose the camera's battery pack or other accessories to rain or humidity to prevent a fire hazard or electric shock.

For customers in the U.S.A.

Tested To Comply With FCC Standards

FOR HOME OR OFFICE USE

FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

For customers in Europe

"CE" mark indicates that this product complies with the European requirements for safety, health, environment and customer protection. "CE" marked cameras are intended for sales in Europe.

This symbol [crossed-out wheeled bin WEEE Annex IV] indicates separate collection of electrical and electronic waste in the European countries. Please do not throw the equipment into the waste. Please recycle and dispose of properly.

Declaration of Conformity

Model Name: OPTIMA 145

Trade Name: AgfaPhoto

Responsible Party: RedDot Imaging

Address: RedDot Imaging, 2275 NW 84thAve, Doral, FL 33122.

Customer Care Hotline:

Service & Repair Hotline (USA):

1-855-243-2937 (from a landline only)

UK: +44 1908 488676

SAFETY PRECAUTIONS

Camera notes:

- Do not store or use the camera in the following types of locations:
  - In the rain or in, very humid and dusty places.
  - In a place where the camera may be exposed directly to sunlight or subject to high temperature, e.g. Inside a closed car in summer.
  - In a place where the camera is subject to a high magnetic field, e.g. near motors, transformers or magnets.
- Do not place the camera on a wet surface or places where dripping water or sand may come in contact with the camera, which may cause irrepairable damage.
- If the camera will not be used for a long period of time, we suggest you remove the batteries and the memory card from the camera and keep them in a dry environment.
- If you carry the camera suddenly from a cold location to a warm place, moisture may condense inside the camera. We suggest you wait for a while before turing on the camera.
- No compensation for loss of recordings. Loss of recordings cannot be compensated for if a malfunction of your camera or recording media, makes the playback of recordings not possible.

Battery notes:

- Incorrect use of the battery may cause them to leak, become hot, ignite or burst. Always observe the precautions given below.
  - Do not expose the battery to water, and take particular care to keep the terminals dry.
  - Do not heat the battery or throw them into a fire.
  - Do not attempt to deform, disassemble or modify the battery .
- Keep the battery out of reach of small children.
- In cold locations, battery performance deteriorates and the time for which they can be used shortens markedly.

Memory card notes:

- When using a new memory card, or a memory card that has been used in a PC, be sure to format the card with your digital camera before using it.
- To edit image data, copy the image data to the PC's hard disk first.
- Do not change or delete the folder names or file names in the memory card from your PC, as this may make it impossible for your camera to recognize the original folder or file in the memory card.
- The photos taken by this camera are stored in the auto-generated folder in the SD card. Please do not store photos that are not taken by this model of camera, as this may make it impossible to recognize the picture when the camera is in playback mode. Please do not expose the camera to harsh environments such as moisture or extreme temperatures, which may shorten the life of your camera or damage the batteries.

BEFORE YOU START

Preface

Thank you for purchasing this AgfaPhoto digital camera. Please read this manual carefully and keep it in a safe place for future reference.

Copyright

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No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language or computer language, in any form, by any means, without the prior written permission of RedDot Imaging.

Trademarks

All trademarks mentioned in this manual are used for identification purposes only and are properties of their respective owners.

Safety information

Please read the following important information carefully before using the product.

- Do not take apart or attempt to service the camera yourself.
- Do not drop or knock the camera. Improper handling may damage the product.
- Turn off the camera before inserting or removing the battery and (or) memory card.
- Do not touch the camera's lens.
- Please do not expose the camera to harsh environments such as moisture, or extreme temperatures, which may shorten the life of your camera or damage the batteries.
- Do not use or store the camera in dusty, dirty, or sandy areas, as its components may be damaged.

- Do not expose the lens to direct sunlight for extended periods.
- Download all pictures and remove the batteries from the camera if you are going to store the camera for long periods of time.
- Do not use abrasive cleansers, alcohol-based, or solvent-based cleaners to clean the camera. To clean, wipe the camera with a slightly damp soft cloth.

About this manual

This manual provides you with instructions on how to use your AgfaPhoto digital camera. Every effort has been made to ensure that the contents of this manual are accurate, however RedDot Imaging reserves the right to make changes without notice.

Symbols used in this manual

Throughout this manual, the following symbols are used to help you locate information quickly and easily:

Indicates the useful information to know.

Indicates precautions to be taken while operating the camera.

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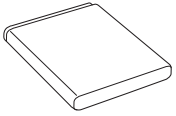
GETTING READY

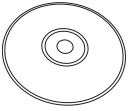
Unpacking

Your package should contain the camera model you purchased along with the following items. If anything is missing or appears to be damaged, please contact your vendor.



Rechargeable
Lithium-ion battery

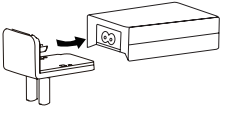
Warranty Card



CD-ROM

Wrist Strap

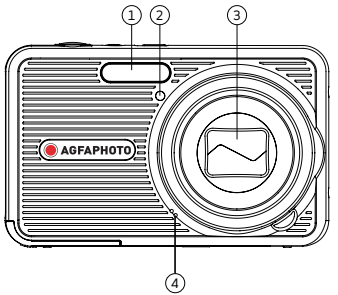
USB Cable



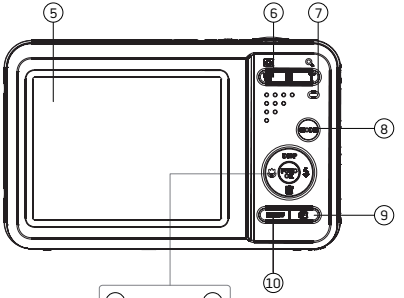
Power Adapter

Camera Views

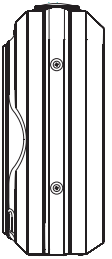
Front View

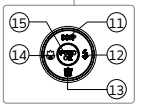


Back View

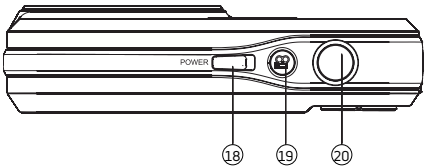


Right View

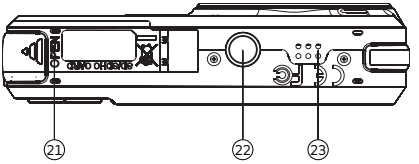




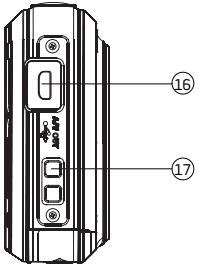
Top View



Bottom View



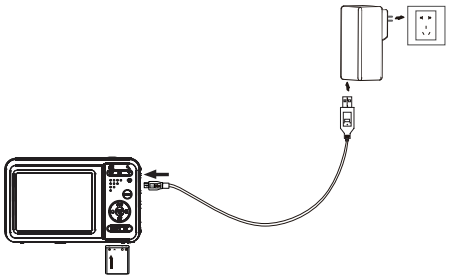
Left View



1	Flash Lamp	13	Delete button/Self-timer button/ Down button
2	AF Assist/Timer Indicator	14	Close-up shooting button/Left button
3	Lens	15	Function/OK Button
4	Microphone	16	USB/AV Port
5	LCD Screen	17	Wrist Strap Anchor
6	Zoom Button	18	Power Button
7	Status Indicator	19	Recording Button
8	Mode Selection Button	20	Shutter Button
9	Playback Button	21	Card Slot/Battery Compartment
10	Menu Button	22	Tripod Socket
11	Disp/Up Button	23	Speaker
12	Flash Mode/Right Button		

Charging the Battery

1. Put the battery into the camera.
2. Use the USB cable to connect the camera to the power adapter.
3. Insert the power adapter into the power socket.

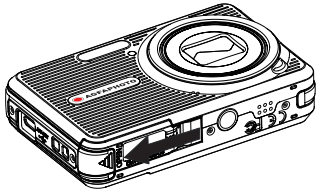


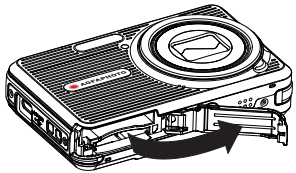
Leave the battery charging until the charger light turns green. To maximize battery life, the first charge should be at least 4 hours.

The charger is for indoor use only.

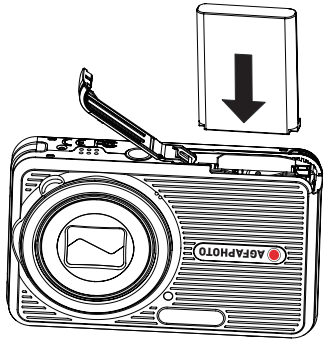
Insert the Battery and SD/SDHC Card (Not included)

1. Open the battery compartment.

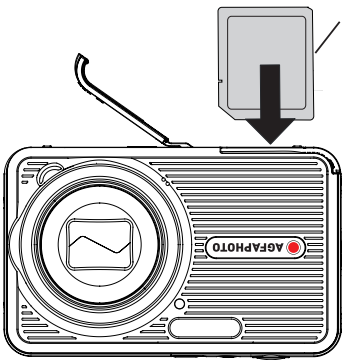




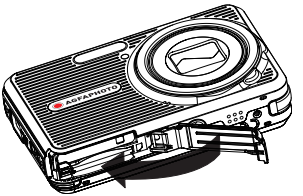
2. Insert the enclosed batteries into the battery slot in the correct direction.

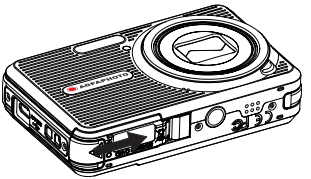


3. Insert an SD/SDHC card (not included) into the memory card slot as shown.



4. Close the battery compartment.



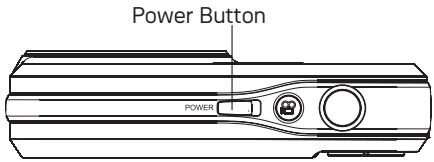


Optional SD/SDHC cards are not included. The use of 64 MB to 32 GB memory cards from recognized manufacturers such as SanDisk, Panasonic and Toshiba is recommended for reliable data storage.

To remove the SD/SDHC card, open the battery compartment and gently push the card to release it. Pull the card out carefully.

Turning On and Off

Press the Power button to turn the camera on. To turn off the camera, press the Power button again.



After the camera is turned on, the camera will default to the the shooting mode last used. Press the Mode button, and use the Left/Right button to switch among different shooting modes. When the camera is used for the first time, the language setup will display on the screen.

Use Mode button

The AgfaPhoto camera provides a convenient mode button that allows you to switch between different modes easily. After pressing the mode button to enter mode selection menu, press Left/Right button to choose the mode, press "func/OK to select. All the available modes are listed as follows:

Mode Name	Icon	Description
Auto mode		Switch to take still pictures in automatic mode.
Manual mode		Switch to take still pictures in manual mode, where many camera settings can be configured.
ASCN mode		Switch to have the camera automatically select the best scene type for still pictures.
Panorama mode		Switch to capture a sequence of shots and stitch them together into a panoramic photo.
Scene mode		Switch to take still pictures in 20 different scene types to choose from.
Stabilization mode		Switch to take still pictures by reducing image blur caused by hand shake, low lighting conditions,, or slow shutter speeds.
Portrait		Switch to take portrait pictures under normal conditions.
Movie mode		Switch to record videos.

Set Time, date/time

The Date/Time and Language setup will automatically appear when the camera is turned on the first time.

To set the language, date, and time, go to the following setup options in the General Setup menu.

- Language
- Date / Time

To access the **General Setup** menu, do the following:

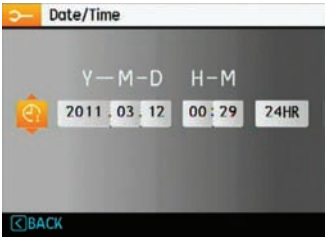
1. Press the Power button to turn the camera on.
2. Press the MENU button, then switch among the settings menus by using the **Left/Right** button and select General Setup.

Setting the Language

1. Select language with the Down button, press the FUNC OK or right button to enter the setting.
2. Use the **Up/Down/Left/Right** buttons to select the desired language.
3. Press the FUNC OK button to confirm the setting.

Setting the Date and Time

1. Select date / time with the Up/Down button, then press the (FUNC OK) or right button to enter the setting.
2. Press the **Left/Right** button to highlight each field and use the Up/Down button to adjust the value.
3. Press the (FUNC OK) button to confirm the setting.



About the LCD Screen

When you turn the camera on, various icons will appear on the LCD screen to indicate the current camera settings and status. To learn more about the displayed icons, see "**LCD Screen display**" on page 25.

LCD Screen notes:

Extremely high-precision technology has been used to manufacture the LCD screen so that most of the pixels are operational for use. However, there may be some minute points (black, white, red, blue or green) that constantly appear on the LCD screen. These points are normal in the manufacturing process and the recording is not affected in any way.

Avoid exposing the LCD screen to water; remove any moisture on the LCD screen with a soft and dry cleaning cloth.

If the LCD monitor is damaged, take particular care with the liquid in the monitor. If any of the following situations arise, take the recommended immediate action indicated below:

- If liquid from the LCD comes in contact with your skin, wipe the area with a cloth and then wash thoroughly with soap and running water.
- If liquid from the LCD flows into the eyes inadvertently, please rinse with water immediately and seek medical assistance.
- If liquid from the LCD is swallowed, flush your mouth thoroughly with water. Drink large quantities of water and induce vomiting. Then seek medical assistance immediately.

Shooting in Auto Mode

Auto mode is the easiest mode to take photos with. While operating in this mode, the camera automatically optimizes the camera's settings for best results.

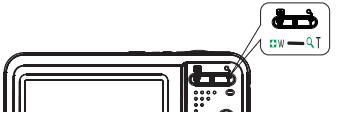
To start shooting, do the following:

1. Press the power button to turn the camera on.
2. Press the Mode button and select Automatic mode. [AUTO].
3. Compose your picture on the LCD screen and press the Shutter button halfway to focus on the subject.
4. The LCD screen will show a green focus frame after the subject is in focus.
5. Press the **Shutter button** fully to capture the image.

Auto mode is an initial default mode.

Using the Zoom Function

Your camera is equipped with two types of zoom functions: optical zoom and digital zoom. Press the Zoom button to zoom in or out of the subject while taking pictures.



Zoom indicator (See "Digital Zoom" on page 46)

When the optical zoom reaches its maximum value, release the Zoom button then press it again and the optical zoom will switch over to digital zoom. The Zoom indicator is hidden after the Zoom button is released. The screen will show [🔍] for the current zoom status.

Flash

Press the Right/Flash button to enter the flash interface, then press the Left/Right button to switch among six different flash modes:

- Flash: Forced off
  Flash is turned off.
- Flash: Forced flash
  The flash will fire with every shot.
- Flash: Red-Eye+Slow Synchro
  Using this mode for slow synchro shots with red-eye reduction.
- Flash: Slow Synchro
  This allows you to take pictures of people at night that clearly show both your subject and the night scenery.
- Flash: Red-eye reduction
  The camera emits a brief flash before the picture is taken to reduce red-eye effects.
- Flash: Auto
  Camera flash fires automatically based on existing light conditions.

Self-timer

To enable the self-timer function, press the Down/Self-timer button to enter the self-timer selection interface, press the Left/Right button to switch among three self-timer modes:

- Self-timer : Off
  The self timer is disabled.
- Self-timer : 2 Sec
  A single picture is shot 2 seconds after the Shutter button is pressed.
- Self-timer : 10 Sec
  A single picture is shot 10 seconds after the Shutter button is pressed.

Macro Mode

Press the Left/Close-up button to enter the close-up shooting interface, press the Left/Right button to switch between two close-up shooting modes:

- Macro : On

  Select this to focus on subjects 5cm from the lens.

- Macro : Off

  Select this option to disable Macro.

Using quick recording

In Shooting mode, press the Recording shortcut button to enter the recording mode directly and make recordings.

After finishing a recording, press the Recording shortcut button or Shutter button again, you can store the video and return to the shooting screen.

Advanced Functions Menu

The Advanced Functions menu of the camera includes image size, image quality, white balance, image colour, ISO and EV values. These functions allow advanced users better control for shooting under difficult lighting conditions.

Set the advanced functions as per the following steps:

1. Pull up the Advanced Function Menus by pressing the (FUNC OK) button.

2. Press the Down button to enter the advanced function selection screen, then press the Left/Right button to select the function that needs to be changed or adjusted.
3. Press the Up button to enter the advanced function setting interface.

4. Press the Left/Right button to select the value to be set, press the (FUNC OK) button to confirm the setting and quit the interface.

Size

The size setting refers to the image resolution in pixels. A higher image resolution allows you to print that image in larger sizes without degrading the image quality.

The larger the pictures are, the bigger the file sizes are and the less pictures you can store on a memory card.

Quality

The quality setting adjusts the compression ratio of the images. Higher quality settings give better photos, but will take up more memory space.

There are three options for picture quality:

- Quality : Best
- Quality : Fine
- Quality : Normal

WB (White Balance)

The White Balance allows you to adjust the color temperature from different light sources to ensure faithful color reproduction. (The WB setting is only available when the camera is in the **M** **Manual** mode).

The options of White Balance include:

- WB : Auto
- WB : Daylight
- WB : Cloudy
- WB : Fluorescent
- WB : Fluorescent CWF
- WB : Incandescent
- WB : Manual (Press the shutter button to set WB)

Color

The color setting feature allows you to add artistic color effects to your images when taking pictures. You can try different color tones to alter the mood of your pictures. (The colour setting feature is only available when the camera is in the **M** **Manual** mode).

The color options include:

- Color : Auto
- Color : Vivid
- Color : Black & White
- Color : Sepia

ISO

The ISO function allows you to set the sensitivity of the camera sensor based on the brightness of the scene. To improve the performance in darker environments, a higher ISO value is required. On the other hand, a lower ISO value is needed when in bright conditions. (The ISO setting is only available when the camera is in the **M Manual** mode).

Pictures at higher ISO will naturally have more noise than those at lower ISO.

The options of ISO include automatic, 64, 100, 200, 400, 800 and 1600.

Exposure Compensation

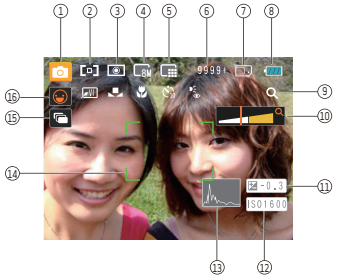
The exposure compensation adjustment allows you to adjust the light exposure value to control the brightness of the image. (The exposure compensation setting is only available when the camera is in the **M Manual** mode).

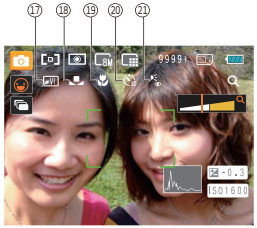
The adjustable range of exposure value is from EV -2.0 to EV+2.0.

LCD Screen Display

Still Picture Mode Display

Mode: AUTO M ASCN SCN





1 Shooting Mode Icons

- Auto mode
- Manual mode
- ASCN mode
- Panorama mode
- Scene mode
- Stabilization mode
- Portrait mode

2 AF Mode

- Single-AF
- Multi-AF

3 Expo Metering

- Spot
- Center
- AiAE

4 Image Size

5 Image Quality

6 Remaining number of pictures
7 Memory card/built-in memory
8 Battery Status
9 WT Ratio (Displayed only when the zoom is activated)
10 Zoom scale
11 Exposure value (Adjustable only in M Manual mode)
12 ISO Value (Adjustable only in M Manual mode)
13 Histogram
14 Focus Frame
15 Continuous Shot
16 Face Detection
17 Picture Color (Adjustable only in M Manual mode)
18 White Balance (Adjustable only in M Manual mode)
19 Macro mode
20 Self-timer

Self-time : 2-sec

Self-time : 10-sec

21 Flash Mode

Flash : Forced off

Flash : Forced flash

Flash : Red-Eye + Slow Synchro

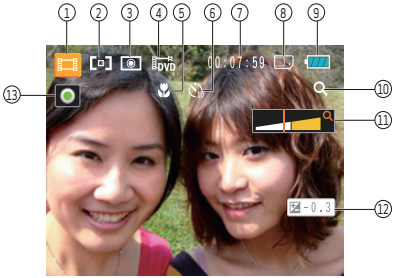
Flash : Slow Synchro

Flash : Red-eye reduction

Flash : Auto

Video Shooting Mode Display

Mode :



1 Video Mode icon
2 Continuous AF
3 Metering
   Spot
   Center
   AiAE
4 Video Quality
5 Macro mode
6 Self-timer
   Self-time : 10-sec
7 Remaining Time for Video Recording
8 Memory Card/Built-in Memory
9 Battery Status
10 WT Ratio (Displayed only when zoom is activated)
11 Zoom Scale
12 Exposure Value
13 Recording Status Icon
   Recording standby
   Recording

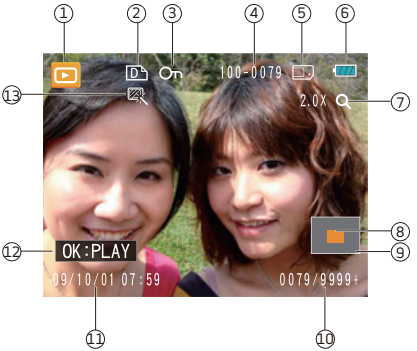
For optimal video shooting, it is recommended that an SD card be used. Shooting videos without an SD card, may result in image noise and image jitter.

HD recording time is limited to below 29min .

During video shooting, optical zoom is fixed but the highest 6x digital zoom is still available.

Playback mode display

Mode: ▶



1. Playback Mode icon
2. DPOF file
3. File protection
4. Picture Number
5. Memory Card/Built-in Memory
6. Battery Status
7. Image Zoom
8. Zoom Magnification Area Indicator
9. Field of view indicator
10. Memory Space (this picture/Total number of pictures)
11. Recording Date and Time
12. OK: PLAY
13. HDR

ASCN mode

In the "**ASCN**" mode, different recording conditions are detected intelligently and the most suitable settings will be automatically selected. With "ASCN" you can always take good pictures easily.

To use "ASCN":

1. Press the Mode button to select ASCN mode, the LCD screen will display the following:

2. Hold the camera steadily and aim at the subject. The optimum scene mode will be identified automatically.
3. Press the Shutter button halfway down to focus.
4. Press the Shutter button all the way down to take the picture.

Icon	**Mode name**	**Icon**	**Mode name**
	Landscape Mode		Night Landscape Mode
	Portrait Mode		Macro Mode
	Night Portrait		Auto Mode
	Backlit Portrait		

Landscape Mode

For landscapes, ASCN will automatically adjust the exposure to match the background.

Portrait Mode

For portraits, ASCN will automatically adjust the exposure and skin tones resulting in more natural looking photos.

Night Portrait

When you shoot portraits at night, or in low light conditions, ASCN will automatically adjust the exposure for people and night scenes.

Backlit Portrait

When the sun or any other light source is behind you, ASCN will automatically adjust the foreground exposure to produce good pictures.

Night Landscape Mode

For night scenes, ASCN will automatically increase the ISO value to compensate for low light.

Macro Mode

To capture fine detail for close-ups, ASCN will automatically adjust the focus.

Auto Mode

The camera will automatically adjusts the exposure and focus to ensure good pictures.

Panorama mode

Panorama Mode allows you to create a panoramic picture. The camera will create a panoramic photo by stitching individual images taken in panorama mode.

Follow these steps to create a panoramic picture:

1. Press the Mode button and use the Left/Right button to select Panorama mode, then press the FUNC OK button to confirm the setting.
2. Use the Left/Right button to select the direction of image stitching, e.g. left to right or right to left. Then press the FUNC OK button to confirm the setting; if no selection is made the camera will default to left to right stitching after 2 seconds.
3. After the first shot is taken, two target icons will appear on the left and right side of the LCD screen. Pan the camera and the circle icon on the screen will move towards the square frame icon. When the circle icon and square frame become green after overlapping, the camera will capture the next picture automatically. Repeat the same step for the third picture to finish the stitching.

The camera will then stitch the pictures into a panorama automatically. Press the playback button to enter Playback mode and review the panorama result.

After selecting Panorama mode, Flash, Self-timer, Macro mode and Exposure Compensation can not be adjusted.

Before ending the shooting sequence, pressing the Delete button will cancel the shooting sequence.

Panorama mode can stitch 2 or 3 pictures total.

Manual Scene Mode (SCN)

In Manual Scene mode, you can select from a total of 20 scene types to match your needs. You just need to select the right scene for the occasion and the camera will automatically set the optimal settings for you.

Press the Mode button, and use the Left/Right button to enter the Scene Selection mode menu, then press the FUNC OK button to enter the Scene Selection mode. The following image will appear on the LCD screen:

Select a scene using the Up/Down/Left/Right button and press the FUNC OK button.

Icon	Mode Name	Icon	Mode Name
	Landscape		Sport
	Beach		Sunset
	Fireworks		Night Landscape
	Night Portrait		Gathering
	Children		Indoor
	Snow		ID
	Museum		Photo frame
	Travel shooting		Text
	Leaf		Glass
	Fish eye		Sketch

Landscape

For landscapes. Vivid reproduction of green and blue.

Sport

For fast-moving subjects. Capture sharp action shots without blur.

Beach

For capturing images in scenes with strong sunlight.

Sunset

For sunsets. Capture subjects in strong sunlight.

Fireworks

For fireworks at night. Shutter speed is adjusted to capture spectacular images. The use of a tripod is recommended.

Night landscape

For night scenes. The use of tripod is recommended.

Night portrait

For portraits against night scenery.

Gathering

For taking pictures of large groups or in areas with uneven lighting.

Children

For children and pets. Flash is disabled for eye protection.

Indoor

For indoors. Reduce blur and improve color accuracy.

Snow

For snow scenes. Reproduce natural looking snow scenery.

ID

For shooting ID size photos.

Museum

For museum or flash-free areas. Retain color and reduce blur.

Photo frame

For adding interesting frame effects to the photo.

Travel shooting

Produces background image blur that emphasizes the motion of the main subject.

Text

For capturing documents, printed material, and presentation boards.

Leaf

For plants. Capture brilliant shots of greenery and blossoms.

Glass

For objects behind transparent glass.

Fish eye

Creates a fish-eye effect, by distorting the center of the image.

Sketch

For taking photos with pencil sketch effect.

1. After selecting the (FUNC OK) scene type, press the button to activate.
2. After setting the option, press the (FUNC OK) button to confirm the setting and enter the selected Scene Selection mode for shooting.

The main functions menu also allows you to adjust the image quality and image size. Please refer to the "**Advanced Functions Menu**" section on page 21 for detailed instructions.

Stabilization mode

This mode can help reduce image blur caused by hand shake, low light and slow shutter speed

Press the Mode button, and use the Left/Right button to select Stabilization mode, then press the FUNC OK button to enter Stabilization mode.

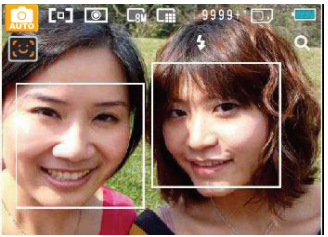
Use stabilization mode in dark environments or when using a slow shutter speed

Shooting in a windy or unstable environment (such as a moving vehicle) may cause blurred images.

Face Detection

This function automatically detects facial features and directs the camera to focus on them.

In face detection mode, press the shutter button halfway and the camera will automatically detect faces and display a rectangular focus frame around them. The focus frame will turn green to indicate that the face or faces are in focus. Press the shutter button the rest of the way to take the picture.



Blink Detection

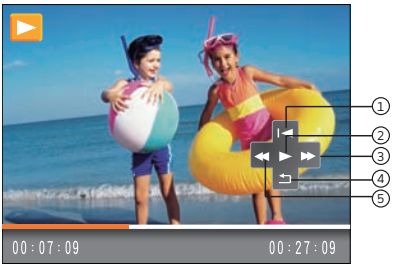
Blink Detection is enabled automatically under normal shooting conditions. When shooting, if a human face is detected with closed eyes, the blink detection icon [ ] will appear on the screen to indicate that a blink has been detected.

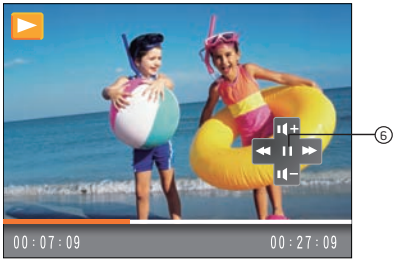
Viewing Photos and Videos

To view stored photos and video clips on the LCD screen:

1. Press the ▶ button to enter the **Playback** mode. The last recorded photo or video clip will appear.
2. Use the **Left/Right** navigation buttons to scroll through the photos or video clips stored in the internal memory or memory card.
3. To play a selected video clip, press the FUNC OK button to enter the movie playback mode.

During video playback, the operating instructions will appear on the screen. Press the Left/Right button, and press the FUNC OK button for confirmation.





The operating instruction icons are as follows.

1	Return to the first frame and play	4	Return to the first frame
2	Play	5	Rewind
3	Fast Forward	6	Pause

When playing a stored video, press the Up/Down arrow button to adjust the playback volume ; Press and hold the Down button to mute the volume .

Thumbnail View

When in Playback mode, press the W to display thumbnail images of photos and videos on the screen.

1. Use the Zoom button to switch between 3x3, 4x4 and the Date Folder thumbnail display.

2. When displaying 3x3 and 4x4 thumbnails, use the Up/ Down/ Left/Right button to select a picture or video for viewing; press the FUNC OK button to return to the original size.
3. When displaying date folder thumbnails, use the Up/ Down button to select a date folder. Pressing the FUNC OK button will enter the date information index.

4. Use the Up/Down/Left/Right button to select a picture or video clip, then press the FUNC OK button to return to the original size.

Date Folders are displayed in order, based on the shooting date.

If the icon appears on the LCD, then a movie file is currently being displayed.

Using Zoom Playback (for still pictures only)

The zoom buttons can also be used during playback. This allows you to magnify photos from 2x to 8x.

1. Press the ▶ button to enter the Playback mode.
2. Use the Left/Right navigation buttons to select a photo to magnify.
3. Press one end of the Zoom button T🔍 to zoom in.
4. Use the Zoom buttons to zoom in and out. The zoom magnification area scale and the total photo area scale will display on the screen.

5. Use the navigation buttons to pan across the image.
6. Press the FUNC OK button to return the image to its original size.

Movie images cannot be magnified.

Using the Delete Button

In Playback Mode, you can press the Down/Delete button to delete pictures or videos.

To delete pictures or videos:

1. Press the ▶ button to enter the Playback Mode.
2. Select a picture or video clip you want to delete with the Left/Right button.
3. Press the Down/Delete button and the delete screen will appear.

4. Select Yes or Back with the Up/Down button and press the FUNC OK button to confirm the setting.

Erased photos/video clips cannot be recovered.

Please refer to page 52 for instructions on the Delete Menu options.

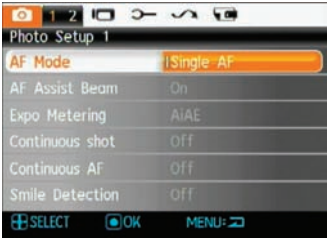
Still Menu

Mode: AUTO M ASCN SCN

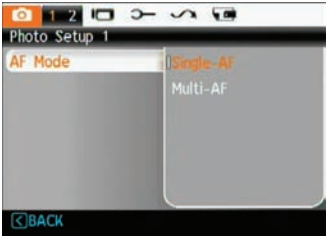
In any of the above Still Picture Modes, press the MENU button to go to the Still Picture menu.

To adjust each setting:

1. In the Still Picture menu, switch between different Photo Setup or Camera Setup pages using the Left/ Right button. Select the page with the function you want to adjust and press the Down button.



2. Press the Up/Down buttons to select the function.
3. Press the (FUNC OK) or Right button to go to the submenu.



4. Press Up/Down button to select an option, or press Left button to return to the menu.
5. Press the (FUNC OK) button to confirm the setting and return to the previous page.

After selecting a function, you can press the Up button to return to the Still Picture menu for other Photo Setup or Camera Setup pages. Or you can press the Down button several times to move to the next setup menu page.

Refer to the following pages for more details about each setting.

AF Mode (Auto-Focus mode)

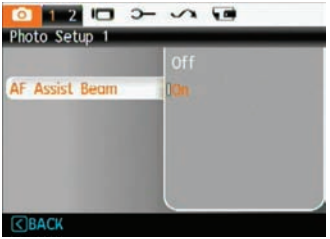
Use this setting to control the auto-focus mechanism while taking pictures.

Two options are available:

- **Single-AF**: The focus frame appears on the center of the LCD screen to focus on the subject.
- **Multi-AF**: The camera will focus correctly on multiple parts of the object.

AF-assist Beam

This option can turn the AF-assist on or off. The AF-assist can improve focusing when the camera is in a dark environment. In low light conditions it is not recommended to turn off the AF-assist lamp otherwise the camera may not focus correctly.



Expo Metering (Exposure Metering)

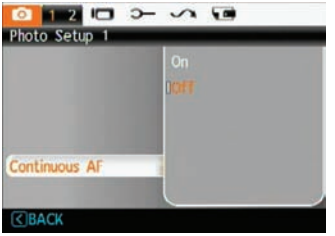
Use this setting to select the size of the area for the exposure to be obtained.

Three options are available:

- **Spot**
- **Center**
- **AiAE** (Artificial Intelligence AE)

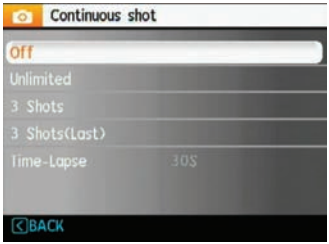
Continuous AF

After Continuous AF is turned on, the camera will adjust focus automatically in response to any camera or subject movement.



Continuous Shot

Use this setting to perform continuous shooting. After entering this mode, you can shoot multiple images by pressing and holding down the shutter button.



There are five available options:

- **Off:** Turn off the Continuous Shot function.
- **Unlimited**: Press and hold the shutter button to shoot continuously until you release the shutter button, or run out of space on the memory card.
- **3 shot**: Capture up to 3 consecutive pictures.
- **3 shots (Last)**: Capture pictures continuously until the Shutter button is released. Only the last 3 shots will be recorded.
- **Time-Lapse**: Automatically capture pictures in a predefined interval.

The flash is dissabled in this mode in order to enable quick succession of shots.

Smile Detection

With the camera's new "Smile Detection" feature, which automatically detects and captures a person smiling, you'll never miss a smile.

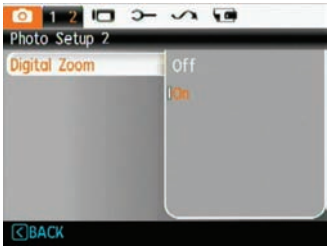
1. When smile detection is enabled, the [ ] icon will display on the LCD screen.
2. Point the camera towards the subject, when the camera identifies a human face, a white focusing frame will appear around the face on the screen. Press the shutter button completely, then release. The camera will "wait for" a smiling face.
3. When the subject smiles, the camera will automatically release the shutter and capture the photo.
4. If you want to stop smile shooting function, please press Shutter button.

A face must be detected by the camera in order for smile detection to function correctly.

For optimal detection results, the subject should be framed to occupy most of the screen space.

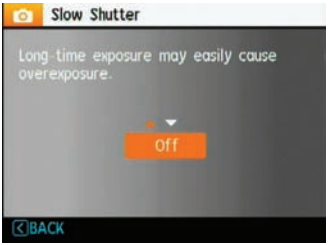
Digital Zoom

Use this setting to enable or disable the digital zoom function. When disabled, only the optical zoom is enabled.



Slow Shutter

Use the Slow shutter mode to c ontrol over the duration of the exposure. (The slow shutter mode is available only in M manual mode.)



- **Manual** : To take a long exposure time between 2~30 sec.

The use of tripod is recommended when using prolonged exposure times.

Quick Review

This setting refers to the brief photo review immediately after taking a picture. The picture stays on the LCD screen for an adjustable period of time.

Four options are available:

- **Off**
- **1 sec**
- **2 sec**
- **3 sec**

Date Imprint

Include a Date/Time stamp in the photo image.

- **Off**
- **Date**
- **Date / Time**

Movie Menu

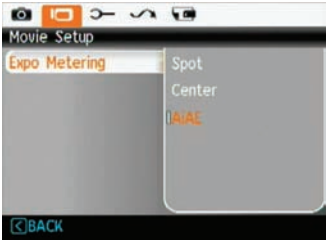
Mode:

In Movie Mode, press the MENU button to go to the corresponding Movie menu.

To configure each setting:

1. In the Movie menu, switch between the Movie Setup or different Camera Setup pages using the Left/Right button, select the page with the function you want to adjust and press the Down button.

2. Press the Up/Down arrow button to select the function to be set, and press the (FUNC OK) or Right button to enter the submenu.

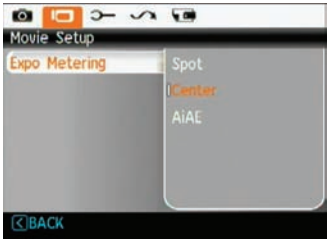


3. Press Up/Down button to select an option, or press Left button to return to the menu.
4. Press the (FUNC OK) button to confirm the setting and return to the previous page.

Refer to the following pages for more details about each setting.

Expo Metering (Exposure Metering)

Set the metering mode for various lighting conditions.

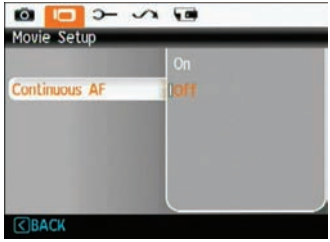


Three options are available:

- **Spot**
- **Center**
- **AiAE** (Artificial Intelligence AE)

Continuous AF

When Continuous AF is turned on, the camera will adjust focus automatically in response to any camera or subject movement.



DIS

Using this function will ensure maximum stability of the screen when recording

Playback Menu

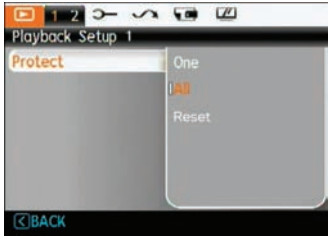
Mode : ▶

In Playback mode, press the MENU button to enter the **Playback** menu.

Please refer to the following sections for detailed instructions on the various menu options.

Protect

To prevent any pictures or videos from being accidentally erased, use this setting to lock one or all of the files.



To protect/unprotect a picture or video:

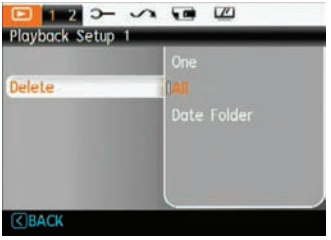
1. Use the Up/Down arrow button and select "Protect", then press the FUNC OK or Right button to enter the submenu.

2. Use the Up/Down button and select "One" to protect individual photos or movies; or select "All" to protect all photos and movies stored in the memory card. Press the (FUNC OK) button to confirm and enter the photo/movie protection interface.
3. Press the (FUNC OK) button then select Yes to lock displayed photos or videos, or select Unprotect to unlock them, then press the Up/Down button and select Back to return to the playback menu.
4. A key icon [ ] will appear on the top of the screen to indicate that the picture/video is protected.

Selecting "reset" will unprotect all previously protected photos and videos.

Delete

There are two ways to delete files.



• **Delete One**:

1. In the Delete Option, select One and then press the (FUNC OK) button.
2. Using the **Left/Right** buttons, locate the photo or movie file to be deleted. Select **Yes** (to delete the file) or **No** (to return to the previous menu) using the **Up/Down** buttons, then press the (FUNC OK) button to confirm.

• **Delete All**:

1. In the Delete option, select All and then press the (FUNC OK) button.
2. Use the **Up/Down** button and select Yes to delete all files, or select Back to return to the menu.

• **Delete Date Folder:**

1. In the Delete option, press the (FUNC OK) button after selecting Date Folder.
2. Use the Up/Down button to select a Date Folder to be deleted, and press (FUNC OK) to confirm, then press the Up/Down button to select item (Yes: to delete the file, or Cancel: to return to the menu) and then press (FUNC OK) to confirm.

The " ⚿ " indicator means a file is protected. File protection must be removed first before a file can be deleted.

Deleting files will cause the DPOF settings to be reset.

DPOF (Digital Print Order Format)

DPOF allows you to define a selection of pictures that you want to have printed, and will save your selection in the memory card, so that you can simply hand your memory card to a photo printing service without having to sort and choose files at the service counter.

Resize

This setting allows you to resize a picture to a specified resolution, and saves it as a new picture.

1. Select the **Resize** setting from the **Playback** menu as described previously.

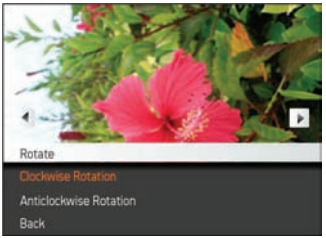
2. Use the **Left/Right** navigation buttons to select a picture to resize.
3. Use the **Up/Down** navigation buttons to select a resolution (**1024X768** or **640X480**) to resize the image or **Back** to cancel and return to the **Playback** menu.
4. Press the FUNC OK button to confirm the setting.

Resizing an image creates a new file that contains the image in the size you select. The file with the original image also remains in the memory.

Rotate

You can use this setting to change the orientation of the picture.

1. Select the **Rotate** setting from the **Playback** menu as described previously.
2. Use the **Left/Right** navigation buttons to select a picture to rotate.
3. Use the **Up/Down** navigation buttons to select the direction of rotation or **Back** to cancel and return to the **Playback** menu.



4. Press the FUNC OK button to confirm the setting.

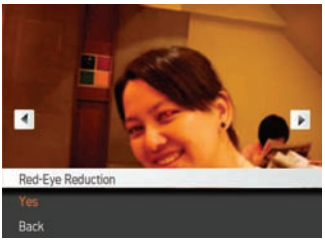
The panorama picture and video cannot be rotated.

Revolved file will replace the original one.

Red-eye Reduction

Use this setting to remove red eye effect in your photos.

1. Select **Red-eye Reduction** in the **Playback** menu as described previously.
2. Use the **Left/Right** button to select the picture from which red eye effect needs to be removed.
3. Use the **Up/Down** navigation buttons and select **Yes** to fix the selected image or **Back** to cancel and return to the **Playback** menu.



4. Press the (FUNC OK) button to confirm the setting.

For best results, the face of the subject should be relatively large in the LCD screen, the subject should be facing the camera as directly as possible, and the eyes should be as large as possible.

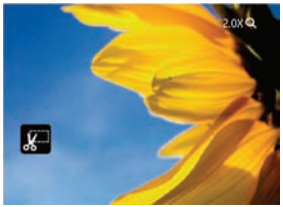
If there is no red eyes in the image, press (FUNC OK) button after selecting "Yes", such prompt will appear on the screen: red eye is not detected!

Trim

The Trim setting allows you select an area of the photo you want to keep and then save it as a new photo.

To trim a picture:

1. Select the **Trim** setting from the ▷ menu.
2. Using the Left/Right buttons, locate the photo that you want to trim and have it displayed on the LCD.
3. Use the zoom buttons and navigation buttons to adjust the trimming box to fit the location and size of the new picture.



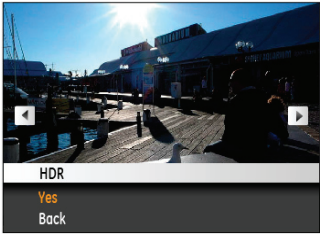
4. "Save Changes?" prompt will display after pressing the (FUNC OK) button, select "O" to confirm the changes and save the image, or select "X" to cancel the changes and return to the previous page.

The image can not be trimmed again when it is trimmed to 640X480.

HDR-High Dynamic Range

With the HDR function, pictures that are overexposed may be corrected to optimize the highlights and lowlights captured to more accurately represent the actual scene.

1. Select HDR setting in the ▷ menu as described previously.
2. Press the Left and Right button to find a picture you want to optimize and then select Confirm to perform HDR optimization or select Return to go back to Playback menu.

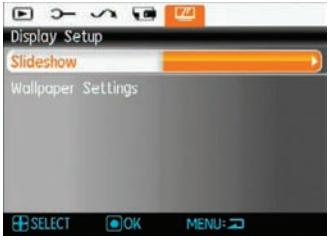


3. After HDR optimizing, the image will be saved as another file with the icon as a prompt, the original file will still remain in the memory.

Display Setup

Mode:

Press the MENU button in Playback mode to enter the Display Setup menu.

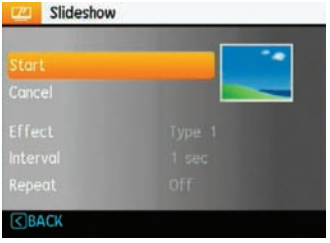


Refer to the following sections for details of every setting.

Slideshow

This setting allows you to view all stored pictures as a slideshow.

1. Select Slide Show menu, then press the FUNC OK or Right button to enter the slide show setup interface.
2. Press the Up/Down button to select playback effect, playback interval or repeat interval, and press the FUNC OK or Right button to enter and adjust settings. press the FUNC OK button to confirm settings.

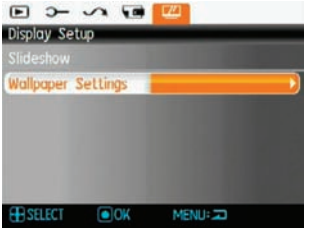


3. Use the Up/Down navigation buttons and select Start to run the slideshow or Cancel to return to the Playback menu.
4. Press the FUNC OK button to confirm the setting.

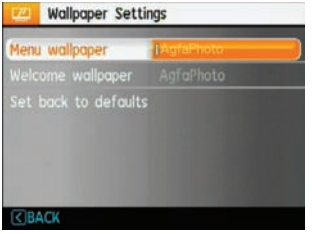
Wallpaper Settings

Use this setting to select your favorite picture as a background on the LCD screen.

1. Press the Down button to select the Wallpaper Setting menu.

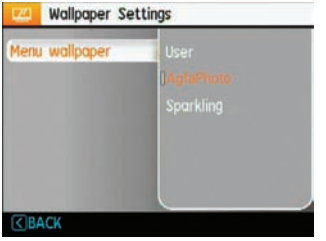


2. Press the (FUNC OK) or Right button to enter the wallpaper setup interface.



Menu Wallpaper:

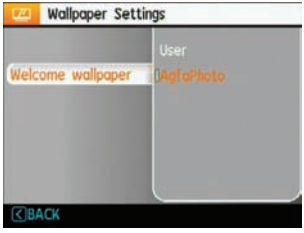
Use the Up/Down button to select the Menu Wallpaper option, Press the (FUNC OK) button to confirm the setting or press the Left button to return to the last page, and press MENU to exit the menu.



- User
- AgfaPhoto
- Sparkling

Startup Screen:

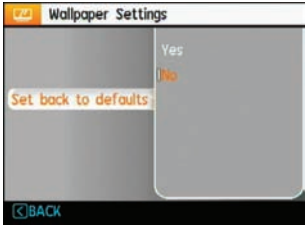
Use the Up/Down button to select the Startup Screen option, press (FUNC OK) to confirm or press the Left button to return to last page, and press MENU to exit the menu.



- User
- AgfaPhoto

Set back to default:

Use the Up/Down button to select Back To Default, press (FUNC OK) to confirm or press the Left button to return to last page, and press MENU to exit the menu.



- Yes
- No

Setup Menu

Mode :

The Setup menu for the camera is available in all modes. Each menu page can be selected by pressing the MENU button and switching between menus with the Left/Right button.

To adjust the settings:

1. Select the menu page with the function you want to adjust and press the Down button.
2. Switch between different functions with the **Up/Down** button.
3. Press the **Right** button to enter the submenu.

After selecting a function option, you can press the Up button to return to the menu for other Camera Setup pages. Or you can press the Down button to switch to the next menu page.

Refer to the following pages for more details about each setting.

Beep

Use this setting to adjust the beep volume when buttons are pressed and change the tones for Shutter button, self-timer, and power-on/power-off.

To change this setting:

1. Select the **Beep** setting from the **Setup** menu as described previously.
2. Use the **Up/Down** navigation buttons to switch between volume, shutter, key, self-timer, and power fields.

3. Press the Right button, then press the Up/Down button to adjust volume and change tones, and press the FUNC OK button to confirm the setting.

LCD Brightness

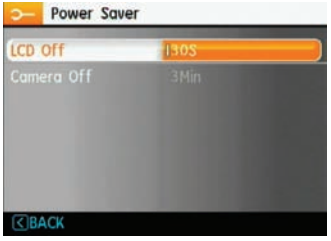
Use this setting to adjust the brightness of your LCD screen.

1. Select the **LCD Brightness** setting from the **Setup** menu as described previously.
2. Select auto or adjust the brightness level by using the Left/Right button, and press the FUNC OK button to confirm the setting.

Power Saver

This setting allows you to save power and get the maximum possible running time from your batteries. Follow the steps below to turn off the LCD screen and camera automatically after a period of inactivity.

1. Select the **Power Save** setting from the **Setup** menu as described previously.
2. Press the Up/Down button to select the power items for the screen and camera and press the Right button.



3. Press the Up/Down button to adjust the selected item. Both items have the following options:
- LCD Off :
  30 sec, 1 min, 2 min, and ON.
- Camera Off :
  3 min, 5 min, 10 min, and ON.

4. Press the (FUNC OK) button to confirm.

Date/Time

See "**Setting the Date and Time**" section on page 16.

World Time

The World Time setting is a useful function on your overseas trips. This feature enables you to display the local time on the LCD screen while you are overseas.

1. Select the **World Time** setting from the **Setup** menu as described previously. The world time screen will appear.
2. Use the **Up/Down** navigation buttons to switch between the hometown [ ] and travel destination [ ] fields.
3. Use the **Left/Right** navigation buttons to select a city close to the desired time zone. Then press the (FUNC OK) button to confirm.

Language

See "**Setting the Language**" section on page 15.

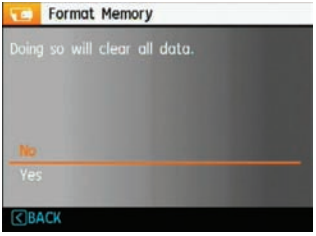
File and Software

Format Memory

Please note: formatting enables you to delete all contents in the memory card and built-in memory, including protected photo and movie files.

To use this setting:

1. Select Format in the File and Software menu.
2. Use the **Up/Down** navigation buttons to select **Yes** or **No**. Then press the (FUNC OK) button to confirm.

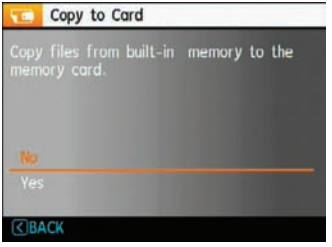


3. The current media is formatted.
4. Please note that when you perform the Format Memory function, it only formats the active memory. If a memory card is inserted, the memory card is active and will be formatted. If there is no memory card, the internal memory is active and the internal memory will be formatted. Formatting the memory card will not automatically format the internal memory.

Copy to Card (Copy internal memory to memory card)

Use this setting to copy the files stored in the internal memory to the memory card.

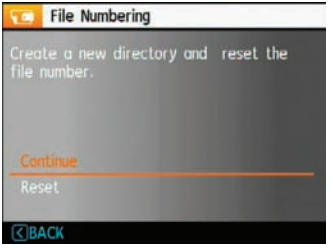
1. Select the **Copy to memory card** in the File and Software menu.
2. Use the **Up/Down** navigation buttons to select **Yes** or **No**. Then press the (FUNC OK) button to confirm.



File Numbering

After you take a picture or video clip, the camera will save it as a file that ends with a serial number. You can use this item to choose whether the file is numbered sequentially or begins with 1 and is saved in another folder in the memory card.(When more than 999 images are on the memory card, the use of this features will have no effect.)

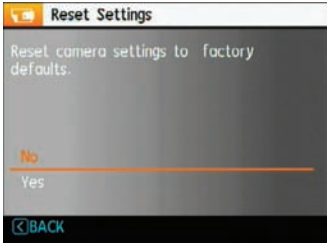
1. Select the File Name in the File and Software menu.
2. Select the option with the Up/Down button and press the (FUNC OK) button for confirmation.



Reset Settings

Use this setting to restore the camera to its default settings.

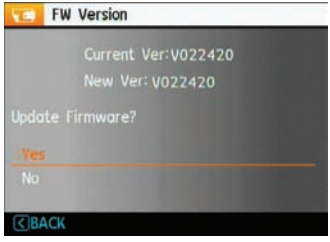
1. Select **Reset** settings in the File and Software menu.
2. Use the **Up/Down** navigation buttons to select **Yes** or **No**. Then press the (FUNC OK) button to confirm.



FW Version (Firmware Version)

Use this setting to view the current camera firmware version.

1. Select **FW Version** in the File and Software menu.
2. If SD card contains a new version of firmware, please upgrade accordingly as necessary.



Video System

Use this setting to configure your video system to your current area.

1. Select the **Video System** in the Connection **Setup** menu.
2. Use the **Up/Down** navigation buttons to select **NTSC** or **PAL**. Then press the (FUNC OK) button to confirm.

The video output signal can be switched to NTSC or PAL to accommodate different regional standards. The appropriate setting will vary between regions.

NTSC: USA, Canada, Taiwan, Japan, etc.

PAL: Europe, Asia (excluding Taiwan), Oceania, etc.

Note: The TV output will not perform properly if an incorrect video system is selected.

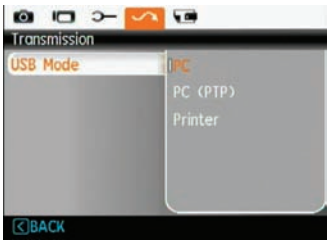
Connecting to a PC

Use the USB cable supplied with your camera to copy (transfer) pictures to a computer.

Setting the USB mode

Since the camera's USB port can be set to connect with either a PC or a Printer, the following steps will allow you to ensure that the camera is correctly configured to connect with a PC.

1. Go to the camera setting menu, select USB connection with the Up/Down button, and press the Right button.
2. Use the **Up/Down** navigation buttons to select **PC**.
3. Press the (FUNC OK) button to confirm the setting.

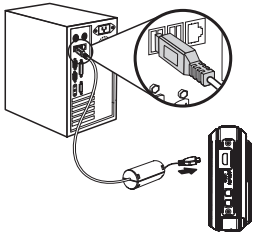


Transferring files to your PC

The computer will automatically detect the camera as a removable drive. Double-click **My Computer** icon on the desktop to locate the removable drive and to copy the folders and files in the drive to a directory on your PC as you would copy any typical folder or file.

By using the USB cable, you can transfer the captured photos and videos to a PC. Follow the steps below to connect the camera to a PC.

1. Make sure both the camera and PC are turned on.
2. Connect one end of the supplied USB cable to the USB/AV OUT port on your camera.
3. Connect the other end of the cable to an available USB port on your PC.



4. Disconnect the camera once the transfer is completed.

If the USB option is set to [PC] :

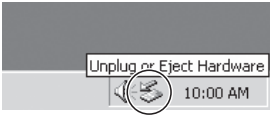
Turn the camera off and disconnect the USB cable.

If the USB option is set to [PC (PTP)] :

Remove the camera from the system as described below before turning the camera off and disconnecting the USB cable.

Windows operating system (Windows 2000, Windows XP, Windows Vista, Windows 7.)

Click the [Safely remove the hardware] icon and remove the USB connector according to the displayed menu.



Macintosh

Drag the untitled icon to the Trash. ("Untitled")

Specifications

Design and specifications are subject to change without notice.

Model name		OPTIMA 145
Effective Image Sensor Pixels		14.1 Megapixels
Image Sensor		14.4 Megapixels [1/2.3" (CCD)]
Lens	Focal Length F =	5.0mm (Wide) ~ 25.0mm (Tele)
	35mm film equivalent	28mm (Wide) ~ 140mm (Tele)
	F number	F3.5 (Wide) ~ F5.2 (Tele)
	Construction	10 elements in 10 groups
	Optical Zoom	5X
	Focusing Range	Normal: (Wide) 60cm ~∞, (Tele) 100cm ~ ∞; Macro: (Wide) 5cm ~ ∞;
Anti-Handshake		DIS
Digital Zoom		6X digital zoom (Combined Zoom: 30X)

Model name		OPTIMA 145
Number of Recording Pixels	Still Image	14MP, 12MP(3:2), 10MP(16:9), 8MP, 5MP, 3MP, 0.3MP
	Movie	1280x720pixels: 30fps/15fps, 640x480pixels: 30fps/15fps, 320x240pixels: 30fps/15fps
Image Compression		Best, Fine, Normal
DCF, DPOF (Ver1.1) Support		Yes
File Format	Still Image	Exif 2.2 (JPEG)
	Movie	MOV(Motion JPEG), Audio: G.711 (Monaural)
Shooting Modes		Auto mode, Manual mode, ASCN mode, Scene mode (Sport, Indoor, Snow, Fireworks, Museum, Night Landscape, Children, Leaf, Sunset, Glass, Landscape, Night Portrait, Beach, Text, Gathering, ID, Fish eye, Travel shooting, Photo frame, Sketch), Stabilization mode, Portrait, Panorama mode, Video mode
Smile Detection		Yes
Blink Detection		Yes
Face-Detection		Yes
Red-eye Removal		Yes

Model name	OPTIMA 145
Pan-Capture Panorama	Yes
LCD Display	2.7 inch (230,400 pixels) LTPS (low-temperature polycrystalline silicon) TFT color LCD
ISO Sensitivity	Auto, ISO 64/100/200/400/800/1600
AF Method	Single AF, Multi-AF (TTL 9-point), AF Assist Light (On/Off)
Light Metering Method	Artificial Intelligence AE (AiAE), Center-weighted Average, Spot (Fixed to center of frame)
Exposure Control Method	ProgramAE (AE-lock available)
Exposure Compensation	±2 EV in 1/3 Step increments
Shutter Speed	4 ~ 1/2000 second (Manual 30 s)
Playback Modes	Single Photo, Index (9/16 thumbnails), Slide Show, Movie (Slow-Motion possible), Zoom (Approx. 2X~8X), Audio, Histogram Display
White Balance Control	Auto (AWB), Daylight, Cloudy, Fluorescent, Fluorescent CWF, Incandescent, Manual

Model name	OPTIMA 145
Internal Flash (Shooting Range)	Auto/Red-Eye Reduction/Forced Flash/No Flash/Slow Synchro/Red-Eye Reduction+Slow Synchro
	Shooting Range Wide: Approx. 0.6m~4.0m / Tele: Approx. 0.8m ~ 2.7m
Recording Media	Internal Memory: 50MB
	SD Card/SDHC Card (Up to 32GB support)
Other Features	ExifPrint Support, Multi-language Support
Jacks	USB2.0*1/AV-OUT (Integrated Proprietary Connector)
Power	Rechargeable Lithium-ion Battery D016, 3.7V 700mAh
Shooting Capability (Battery Performance)	Approx. 220 shots (based on CIPA Standards)
Operation Environment	Temperature: 0~40^{O}C, Humidity: 0~90%
Dimensions (W x H x D)	96.8mm x 60.2mm x (24~20.58) mm
Mass	Approx. 128g (Body only)

*1: 5pin Micro USB

Error messages

Messages	Explanation
Card error	• The memory card is not formatted.
Card full	• The memory card is full and cannot store any new images.
Picture error	• The picture is not captured correctly. • The picture is corrupted.
No picture	• There are no images in the memory card or in the internal memory.
Lens error	• The lens is probably stuck and the camera will power off automatically.
System error	• Unexpected error encountered.
Write protect	• The write protection switch in the memory card is set to the “LOCK” position.
Out of the range	• When pictures were taken in Panorama mode, the direction of movement was incorrect.

Messages	Explanation
Card is not formatted, format?	• Confirm whether the memory card should be formatted.
This image cannot be deleted	• The picture or video you are trying to delete is protected.
Warning!! Camera recording, please wait.	• No other actions allowed to perform during video/audio recording.
Warning!! Battery exhausted.	• The battery is out of charge.
This file cannot be played back	• The picture format cannot be recognized by the camera.
No connection	• The camera is not connected to the printer correctly.
Print error	• There is a problem with camera or printer.
Cannot print	• Check that the printer is out of paper or out of ink. • Check if the printer has a paper jam.

Troubleshooting

Problem	Possible causes	Solution
Camera does not turn on.	• The battery has run out. • The battery is not inserted correctly.	• Replace with a fully charged battery.
Camera turns off suddenly during operation.	• The battery has run out.	• Replace with a fully charged battery.
The picture is blurred.	• The lens is dirty. • appears when taking pictures.	• Use a soft cloth to clean the lens on your camera. • Use the **Image Stabilization** mode.
Images and video files cannot be saved.	• The memory card is full.	• Replace the memory card with a new one. • Delete unwanted images. • Unlock the memory card.
No picture is taken when pressing the Shutter button.	• The memory card is full. • No available space to store the files. • The mode dial is in **Playback** mode.	• Replace the memory card with a new one or format the current memory card. • Delete unwanted images. • The memory card is locked.

Problem	Possible causes	Solution
Write to memory card slowly	• When movie above HD is recorded into the memory card below Class 4, perhaps it is too slow to continue recording.	• Please select HCSD or shoot after formatting this card.
Cannot write to the memory card	• Memory card is in write-protection state. • When shooting or recording, write-protection interruption phenomenon in the memory card (such as due to too slow storage etc.) leads that you can not continue to shoot or record. .	• Please replace a memory card. • Please shoot again.
Too many movies to process	• The number of pictures or binders in the memory card exceeded the specifications, so the playback of data folder can not be displayed.	• Delete needless files. • Transfer the files in the memory card to other area.
Exceed maximum folder number in the memory card	• “Yes” is selected for “File No” menu in the Menu (see P64 for detailed instructions).	• Transfer the files in the memory card to other area. • Set “No” for “File No”.

Customer Care

More information on the complete AgfaPhoto digital camera product range can be found at www.reddotimaging.com. / www.agfaphoto.com.

Service & Repair Hotline (USA):

1-855-243-2937 (from a landline only)

Service & Repair (UK):

+44 1908 488676, info@allmondegroup.com

Online Service / International contact:

customersupport@reddotimaging.com

Manufactured by

RedDot Imaging, 2275 NW 84thAve, Doral, FL 33122.

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